

**Manufacturing of:
OilField / Processing Equipments
Transportation Equipments**



ACORN INDUSTRIES CO. LLC
A member of GGICO group



**Expertise is your need...
Experience is our strength...**

Welcome

The company was established in 2002, to meet the growing demands for commercial vehicle superstructures, Trailers, Process equipment and pumping system across the MENA region.

Today **ACORN** name is synonymous with transport and oil field solutions. Headquarter in emirate of Sharjah, it is strategically located in UAE and serves as a gateway for the MENA region as well.

After two decades of being in this business in the name of **ACORN INDUSTRIES**, under **GIGICO** management have demonstrated their domain knowledge thru successful delivery of products of varied requirements meeting international quality standards.

ACORN business caters to broadly three verticals:

1. Transportation Equipment – Trailers, Flat bed, Low bed, Car Carriers, Tipping Trailers, Fuel & Acid Tankers, Vacuum Tankers, Water Tankers, Cement Bulklers, etc.

2. Process Equipment – Pressure Vessels, Silos (Single, Twin, Tripod), Frac Tanks, Batch mixers (Skid & Trailer mounted), Cementing Unit, Weigh Batch Blenders, Cutting Bottles, Dust Collectors, C-Pump Skid, Cement Bulklers, Acid-Chemical Tankers, etc.

3. Pump Division – We represents world renowned brand pumps like Blackmer (USA), Mouvex (France), Ebsray (Australia), Enviro Gear (Italy), Alma (France) etc.

The company is accredited to ISO 9001; 14001; OHSAS 18001 Standards that ensures the quality of the process and product.

We follow international fabrication standards: Authorized by **ASME "U"**, **National Board "NB"** and **National board "R"** stamp.



Objectives

Maintain leading position in the quality of manufacturing of transportation and process equipment.

Maintain excellent services by meeting National & International standards, Codes/Statutory regulations, Customer requirements.

Meet customer requirements in terms of Competitive prices, On-time delivery, Product operational requirements, Expertise & Efficiency that customer deserves.

Providing 24 Hours – After Sales Service to reduce breakdown time at customer end. As a quality conscious organization, the management is committed to understand the aspirations of Customers, Suppliers and its Employees and improve competencies of the employees and provide opportunity for growth.

Develop, Established and Maintain Quality System by integrating all the management`s functions and operations, which calls for participation of all employees and continual improvement of the organization in all function areas.

Acid Tanker Trailers



Construction

- Acid resistant hoses with FRP tray – 2 Sets
- Scrubber tank to collect spill over with drain – Internally lined
- Spare wheel carrier to accommodate two spare tires
- Side & Rear anti run bumper
- Mudguards & Mud flaps
- Tool box & GRP Water tank

Internal Coating : Derakane 411-45 or 470-300 or Rubber lining

External Finish : Grit blasting followed by three coat paint system

Specification

Capacity	: 6000 – 12000 IG
Shape	: Cylindrical or Customized
Compartment	: Single or Multiple compartment
Application	: For transportation of HCL 32%, Caustic Soda, Sodium Hypochlorite etc.
Construction	: Steel - SA 36/ST 52-3/SS 316/SS 316L : Axle – Tandem/Trident – Mechanical/ : Air suspension – Under slung/Over slung : Tires – Subject to Load/Terrain : Brake – Two line air brake system, Optional ABS/EBS/Emergency/ : Spring assisted brakes
Pipe lines	: Top loading through man way : Discharge line - Customized as per client requirements - With Valves & Unions : Spill over line – Connected to scrubber tank
Valves	: All valve full Teflon coated to suit content
Man ways	: Quantity as per number of compartment for easy accessibility : Man way surrounded by FRP spill over tray
Safety devices	: Pressure & Vacuum relief valves : Optional tanker over turn protection
Level Indicator	: PVC – Dip stick type : Sight glass – Magnetic level indicator
Optional	: Supply & fitment of pump suitable for content : Air line for pressure discharge : Rockwool insulation outside tank – To maintain temperature of content – Increase lining life

Bitumen Tanker Trailers



Specification

Capacity	: 25 – 45 MT
Application	: For transportation of Bitumen
Shape	: Elliptical / Cylindrical
Heater	: Diesel/Electrical burner – Fast heating with high efficiency
Insulation	: Rockwool insulation with cladding for temperature control
Accessories	: Knife edge valve for discharge : Spare wheel carrier to accommodate two spare tires : Side & Rear anti run bumper : Mudguards & Mud flaps : Tool box & GRP Water tank
Finish	: Grit blasting – SA 2.5 – Followed by three coat paint system

Construction

- All welded steel construction - Steel - SA 36/ST 52-3, Equivalent steel
- Man way – 20" – With filling hatch – Minimum 2 Nos.
- Vent – Separate vent for proper ventilation – 2 Nos.
- Axle – Multi leaf Mechanical /Air suspension – Tandem/Trident
- Tires – Twin tire fitment - As per Load/Terrain condition
- Brakes – Two line air brake system – Acting on all wheels – Automatic load sensing valve
- Landing gear – Two speed – Manual
- King pin – 2" or 3.5" – Interchangeable
- Electricals – 7 pin - 24V – Side lights, Reflectors, Reverse lights

Cement Bulker Banana Trailers



Specification

Capacity	: 25 – 60 CBM
Application	: For transportation of Dry sand, Aggregate, Barite, Other commodities
Shape	: V / Banana type self-supporting body
Compressor	: Air compressor – Piston type – With Deutz diesel engine
Accessories	: Discharge hoses – Steel wired : Spare wheel carrier : Rear anti run bumper : Mudguards & Mud flaps : Tool box & GRP Water tank
Finish	: Grit blasting followed by three coat paint system

Construction

- All steel welded construction – Steel A 36/ST 52-3/Equivalent
- Designed to operate under working pressure of above 2 Bar
- Both ends of the tank are dished
- Aeration system – Canvas hose with aluminum strip
- Safety accessories – Pressure relief valve, Pressure gauge, Non return valve,
- Discharge – Both side of the tank with air hoses, shut off valves
- Man way at the top – 20"
- Walk way on the top with foldable hand rail
- Axle – Multi leaf Mechanical/Air suspension – Tandem/Trident
- Tires – Twin tire fitment - As per Load/Terrain condition
- Brakes – Two line air brake system – Acting on all wheels – Automatic load sensing valve
- Landing gear – Two speed – Manual
- King pin – 2" or 3.5" – Interchangeable
- Electricals – 7 pin - 24V – Side lights, Reflectors, Reverse lights

Chemical Tanker Trailers

Specification

Capacity	: 6000 – 10000 USG
Shape	: Cylindrical, Elliptical, Double-D and Customized
Compartment	: Single or Multiple compartment
Application	: Suitable for HCL (Up to 32% concentration), Hypo, Caustic Soda, Fuel and other chemicals.
Man ways	: Quantity as per length/number of compartment for easy accessibility

Pipe lines

- Top or Bottom loading
- Fill line – Customized as per client requirements - With Valves & Unions
- Discharge line - Customized as per client requirements - With Valves & Unions
- Vapor Recovery line – Optional

Construction

- All welded steel construction - Steel - SA 36/ST 52-3, Equivalent steel
- Man way – 20" – With filling hatch – Minimum 2 Nos.
- Vent – Separate vent for proper ventilation – 2 Nos.
- Axle – Multi leaf Mechanical /Air suspension – Tandem/Trident
- Tires – Twin tire fitment - As per Load/Terrain condition

Safety devices

- Pressure & Vacuum relief valves
- Optical sensor to avoid spill over
- Emergency shut off
- Vent line & Spill over tray connected to optional scrubber tank
- Tank over turn protection

Level indicator

- : PVC dipstick with maple wood
- : Sight glass – Magnetic level indicator

Internal coating

- : Epoxy primer, Coal tar epoxy for Water & Fuel application
- : Derakane or Rubber lining for HCL and other highly corrosive chemicals

External finish

- : Grit blasting followed by three coat paint system



Container Trailers



Specification

- Capacity** : 20, 30, 40, 45 feet and other customized containers
- Application** : For transportation of standard ISO, Nonstandard containers
- Accessories** : Spare wheel carrier to accommodate two spare tires
: Side & Rear anti run bumper
: Mudguards & Mud flaps
: Tool box & GRP Water tank
: Twist locks suitable for ISO containers – 4 to 12 numbers

Construction

- All welded steel construction - Steel - SA 36/ST 52-3/ Equivalent steel
- Axle – Mechanical suspension/Air suspension/Front axle lifting – Tandem/Trident
- Tires – As per Load/Terrain condition
- Brakes – Two line air brake system – Acting on all wheels – Automatic load sensing valve
- Landing gear – Two speed – Manual
- King pin – 2" or 3.5" – Interchangeable
- Electricals – 7 pin - 24V – Side lights, Reflectors, Reverse lights

Finish : Grit blasting followed by three coat paint system

Specification

- Capacity** : 6000 – 10000 IG
- Application** : For transportation of Sewage water, Treated water
- Shape** : Cylindrical with outer rings for stiffening
- Pump** : Trailer mounted - Pump with power pack – Diesel operated
: PTO driven pump – Mounted on prime mover
- Door** : Full open type – With hinges at driver side at rear – Secured with set of clamps
: Sealed with neoprene rubber – Provision of greasing for clamp lubrication

Safety Equipment

- Pressure & Vacuum relief valve – To control pressure and vacuum inside tank
- Primary & Secondary cut off – To prevent water entering inside pump
- Combination gauge – Showing pressure and vacuum inside tank

Construction

- All welded steel construction - Steel - SA 36/ST 52-3, Equivalent steel
- Axle - Multi leaf Mechanical suspension - Tandem/Trident
- Tires - Twin tire fitment - As per Load/Terrain condition
- Brakes – Two line air brake system – Acting on all wheels – Automatic load sensing valve
- Landing gear – Two speed – Manual
- King pin – 2" or 3.5" – Interchangeable
- Electricals - 7 pin - 24V - Side lights, Reflectors, Reverse lights

Accessories

- Level Indicator – Slight glass – Showing level of content inside tank
- Optional 20" inspection man way
- Spare wheel carrier to accommodate two spare tires
- Side & Rear anti run bumper
- Mudguards & Mud flaps
- Tool box & GRP Water tank
- Hose box with fill & discharge hoses - On either side of the tank

Finish

- Internal** : A. Grit blasting – SA 2.5
B. Epoxy / Coal tar coating – Two coats
- External** : A. Grit blasting - SA 2.5
B. Epoxy primer followed by two coat of paint

Vacuum/Sewage Tanker Trailers



Flat Bed Trailers



Specification

- Capacity** : 15 – 60 Ton
- Application** : For transportation of Heavy equipment, General cargo, ISO containers, Other commodities
- Accessories** :
- : Headboard with tarpaulin rack & ladder
 - : Rear grills – Removable type
 - : Spare wheel carrier to accommodate two spare tires
 - : Side stakes – Removable - With pockets
 - : Side & Rear anti run bumper
 - : Mudguards & Mud flaps
 - : Tool box & GRP Water tank
 - : Twist locks suitable for 20 & 40 feet containers

Construction

- All welded steel construction - Steel - SA 36/ST 52-3, Equivalent steel
- Axle – Mechanical suspension/ Air suspension – Tandem/ Trident
- Tires – As per Load/Terrain condition
- Brakes – Two line air brake system – Acting on all wheels – Automatic load sensing valve
- Landing gear – Two speed – Manual
- King pin – 2" or 3,5" – Interchangeable
- Electricals – 7 pin - 24V – Side lights, Reflectors, Reverse lights

Finish: Grit blasting followed by three coat paint system

Specification

- Capacity** : 25,000 – 45,000 LITERS
- Application** : For transportation of Drinking water, Non drinking water, Salt water, Agriculture water...
- Shape** : Elliptical, Double D-shape, Other Customized shape

Pump

- Diesel or Petrol Engine driven – Mounted on tanker chassis
- PTO driven pump – Mounted on prime mover

Construction

- All welded steel construction - Steel - SA 36/ST 52-3, Equivalent steel
- Man way – 20" – With filling hatch – Minimum 2 Nos.
- Vent – Separate vent for proper ventilation – 2 Nos.
- Foldable hand rail with walk way
- Optional spray bar with nozzles
- Axle – Multi leaf Mechanical suspension – Tandem/Trident
- Tires – Twin tire fitment - As per Load/Terrain condition
- Brakes – Two line air brake system – Acting on all wheels – Automatic load sensing valve
- Landing gear – Two speed – Manual
- King pin – 2" or 3,5" – Interchangeable
- Electricals – 7 pin - 24V – Side lights, Reflectors, Reverse lights

Water Tanker Trailers



Accessories

- Spare wheel carrier to accommodate two spare tires
- Side & Rear anti run bumper
- Mudguards & Mud flaps
- Tool box & GRP Water tank
- Hose box with fill & discharge hoses – On either side of the tank

Finish

- Internal:** A. Grit blasting – SA 2.5
B. Epoxy coating – Two coats – To suit content
- External:** A. Grit blasting - SA 2.5
B. Epoxy primer followed by two coat of paint

Low Bed/Step Frame Trailers



Specification

Capacity	: 30 – 100 Ton
Type	: Rear and Front Loading
Application	: For transportation of Heavy equipment, General cargo, Other commodities

Loading Ramp

- Rear ramp – Twin separate ramp / Full width single ramp – Hydraulic operated / Manual
- Front loading – Top deck foldable ramp – Hydraulic operated

Construction

- All welded steel construction - Steel - SA 36/ST 52-3, Equivalent steel
- Axle – Mechanical suspension/Air suspension – Tandem/ Trident
- Tires – As per Load/Terrain condition
- Brakes – Two line air brake system – Acting on all wheels – Automatic load sensing valve
- Landing gear – Two speed – Manual
- King pin – 2" or 3.5" – Interchangeable
- Electricals – 7 pin - 24V – Side lights, Reflectors, Reverse lights

Finish: Grit blasting followed by three coat paint system

Accessories

- Spare wheel carrier to accommodate two spare tires
- Mudguards & Mud flaps
- Tool box & GRP Water tank
- Mudguards & Mud flaps
- Tool box & GRP Water tank

Tipping/Dump Trailers

Specification

Capacity	: 20 – 60 CBM
Application	: For transportation of Dry sand, Aggregate, Rocks, Other commodities
Shape	: Box type / Taper Door / Half pipe / Scow end

Construction

A. Sand application

- All welded steel construction - Steel - SA 36/ST 52-3, Equivalent steel Door
- Automatic opening/closing with claw lock mechanism

B. Rock application

- Front end hydraulic jack – 80/100 Ton
- Axle – Multi leaf Mechanical suspension – 3X16/18 Ton
- Tires – Twin tire fitment - As per Load/ Terrain condition
- Brakes – Two line air brake system – Acting on all wheels – Automatic load sensing valve
- Landing gear – Two speed – Manual : King pin – 2" or 3.5" – Interchangeable
- Electricals – 7 pin - 24V – Side lights, Reflectors, Reverse lights
- All welded steel construction – Steel for TIPPER is Hardox – 450
- Welded angles all over inside body to take care of rock impact load
- Door: Scow end door with chain mechanism



Accessories

- Spare wheel carrier to accommodate two spare tires
- Side & Rear anti run bumper
- Mudguards & Mud flaps
- Tool box & GRP Water tank

Finish : Grit blasting followed by three coat paint system

Fuel Tanker



- Man ways** : Quantity as per number of compartment for easy accessibility
- Level Indicator** : PVC/Aluminum dipstick
Sight glass – Magnetic level indicator
- Internal Coating** : Epoxy primer/Diesel wash
- External Finish** : Grit blasting followed by three coat paint system

Specification

- Capacity** : 800 – 5000 IG
- Shape** : Elliptical, Double-D or Customized
- Compartment** : Single or Multiple compartment
- Application** : For transportation of Diesel, Petrol, Crude oil etc.
- Construction** : All steel weld construction
Steel - SA 36/ST 52-3/Stainless Steel/Aluminum/Equivalent steel

Pipe lines

- Top or Bottom loading
- Fill line – Customized as per client requirements - With Valves & Unions
- Discharge line - Customized as per client requirements - With Valves & Unions
- Vapor Recovery line – Optional

Safety devices

- Pressure & Vacuum relief valves
- Optical sensor to avoid spill over
- Brake interlock
- Emergency shut off
- Vent line & Spill over tray connected to optional scrubber tank

Specification

- Capacity** : 18, 20 & 24 Ton lift and tip capacity
- Construction** : All steel welded construction

Key Features

- Lower loading/unloading angle achieved by foldable arm
- Risk of load unbalance can be reduce by lower loading and unloading angle
- Suitable with almost all skips. Hook height compatible SMS as well DIN standards
- Various length of containers can be loaded
- Low transport height and long outreach
- Robust design, Integrated cross member provides strength and long life

Finish: Grit blasting followed by three coat paint system

Accessories

- Ergonomic cab control + Outside control
- Roller/Articulated pad stabilizer with optional interlock
- Container roller guide
- Spare wheel carrier to accommodate spare tires
- Side & Rear anti run bumper
- Mudguards & Mud flaps
- Tool box & GRP Water tank

Hook Loader



Cement Mixer



Specification

- Capacity** : 5-14 CBM
Application : Mixing and delivering concrete mixer
Construction : All steel welded construction
Key Features : Drum and blade made from special grade steel (Abrasive resistant)
: Rotation control – Mechanical with double rack lever
: Robust design, Integrated cross member provides strength and long life

Accessories

- Gear Box – Eaton / ZF / Alternative
- Pump – Eaton / Rexroth / Alternative
- Radiator – AKG 089
- Swivel type discharge chute – Can rotate at 180 deg
- Oil cooling system, washing hose, access ladder / platform
- Spare wheel carrier to accommodate spare tires
- Side & Rear anti run bumper
- Mudguards & Mud flaps

Finish : Grit blasting followed by three coat paint system

Specification

- Capacity** : Body = 5 – 22 CBM
: Bin/Hopper = 80/120/240 Liters
Application : For transportation/compaction of waste material size
Construction : All welded steel construction - Steel - SA 36/ST 52-3/Equivalent steel
Compaction : Garbage taken inside body via sweeper shovel-actuated by two double acting hyd cylinders
: Garbage pushed into the body by two double acting sledge cylinders
Lifting : Tail gate raise achieved by two double acting cylinders
: Equipped with safety device to prevent tail gate falling abruptly in case of hose burst/failure
Electricals : 7 pin - 24V – Side lights, Reflectors
Pump : Diesel or Petrol Engine driven – Mounted on chassis
: PTO driven pump

Accessories

- Spare wheel carrier to accommodate spare tire
- Side & Rear anti run bumper
- Mudguards & Mud flaps
- Tool box & GRP Water tank

Finish

- External : A. Grit blasting - SA 2.5
B. Epoxy primer followed by two coat of paint

Refuse Compactors



Vacuum Sewage Tanks



Safety Equipment

- Pressure & Vacuum relief valve – To control pressure and vacuum inside tank
- Primary & Secondary cut off – To prevent water entering inside pump
- Combination gauge – Showing pressure and vacuum inside tank

Finish

- | | |
|----------|--|
| Internal | A. Grit blasting – SA 2.5
B. Epoxy / Coal tar coating – Two coats |
| External | A. Grit blasting - SA 2.5
B. Epoxy primer followed by two coat of paint |

Specification

- | | |
|---------------------|--|
| Capacity | : 1000 – 5000 IG |
| Application | : For transportation of Sewage water, Treated water, etc. |
| Shape | : Cylindrical with outer rings for stiffening |
| Construction | : All welded steel construction - Steel - SA 36/ST 52-3/Equivalent steel |
| Electricals | : 7 pin - 24V – Side lights, Reflectors, Reverse lights |
| Pump | : PTO driven vacuum pump |
| Door | : Full open type – With hinges at driver side at rear – Secured with set of clamps – Sealed with neoprene rubber – Provision of greasing for clamp lubrication |

Accessories

- Level Indicator – Sight glass – Showing level of content inside tank
- Optional 20" inspection man way
- Spare wheel carrier to accommodate spare tire
- Side & Rear anti run bumper
- Mudguards & Mud flaps
- Tool box & GRP Water tank
- Hose box with fill & discharge hoses – On either side of the tank

Specification

- | | |
|--------------------|--|
| Capacity | : 800 – 5000 IG |
| Application | : For transportation of Drinking water, Non drinking water, Salt water, Agriculture water... |
| Shape | : Elliptical, Double D-shape, Other Customized shape |

Construction

- All welded steel construction - Steel - SA 36/ST 52-3, Equivalent steel
- Man way – 20" – With filling hatch – Minimum 2 Nos.
- Vent – Separate vent for proper ventilation
- Foldable hand rail with walk way
- Optional spray bar with nozzles
- Electricals – 7 pin - 24V – Side lights, Reflectors

Pump

- Diesel or Petrol Engine driven – Mounted on chassis
- PTO driven pump

Finish

- | | |
|----------|---|
| Internal | A. Grit blasting – SA 2.5
B. Epoxy coating – Two coats – To suit content |
| External | A. Grit blasting - SA 2.5
B. Epoxy primer followed by two coat of paint |

Water Tanker



Accessories

- Spare wheel carrier to accommodate spare tire
- Side & Rear anti run bumper
- Mudguards & Mud flaps
- Tool box & GRP Water tank
- Hose box with fill & discharge hoses – On either side of the tank

Skip Loaders



Specification

- Capacity** : 10, 12, 14 & 18 Ton lifting capacity
- Construction** : All steel welded construction
- Key Features** : Retractable arms with low hook lift
- : Suitable with almost all skips.
- : Hook height compatible SMS as well DIN standards
- : Two speed, Easy hand operation, Emergency stop
- : Low transport height and long outreach
- : Robust design, Integrated cross member provides strength and long life

Accessories

- Ergonomic cab control + Outside control
- Radio remote control
- Roller/Articulated pad stabilizer with optional interlock
- Single/Double tipping hook with chain protection
- Container stopper
- Spare wheel carrier to accommodate spare tires
- Side & Rear anti run bumper
- Mudguards & Mud flaps
- Tool box & GRP Water tank

Finish: Grit blasting followed by three coat paint system

Tipplers



Specification

- Capacity** : 5 – 22 CBM
- Application** : For transportation of Dry sand, Aggregate, Rocks, Other commodities
- Shape** : Box type / Taper Door / Half pipe / Scow end

Construction

A. Sand Application

- All welded steel construction - Steel - SA 36/ST 52-3, Equivalent steel
- Door: Automatic opening/closing with claw lock mechanism

B. Rock Application

- All welded steel construction – Steel for tipper is Hardox – 450
- Welded angles all over inside body to take care of rock impact load
- Door: Scow end door with chain mechanism
- Front end hydraulic jack / Under body jack
- Electricals – 7 pin - 24V – Side lights, Reflectors

Accessories

- Spare wheel carrier to accommodate spare tires
- Side & Rear anti run bumper
- Mudguards & Mud flaps
- Tool box & GRP Water tank

Finish: Grit blasting followed by three coat paint system

Jetting Tankers



Accessories

- Level Indicator – Sight glass – Showing level of content inside tank
- Optional 20" inspection man way
- Spare wheel carrier to accommodate spare tire
- Side & Rear anti run bumper
- Mudguards & Mud flaps
- Tool box & GRP Water tank
- Hose box with fill & discharge hoses – On either side of the tank

Finish

- | | | |
|----------|----|--|
| Internal | A. | Grit blasting – SA 2.5 |
| | B. | Epoxy / Coal tar coating – Two coats |
| External | A. | Grit blasting - SA 2.5 |
| | B. | Epoxy primer followed by two coat of paint |

Specification

- | | | |
|---------------------|---|--|
| Capacity | : | Up to 20,000 Liters |
| Compartment | : | Two – One for Sewage water / Oil mud / Sludge + One for fresh water |
| Application | : | For suction and transport of Sewage water, Oil mud as well as for high pressure cleaning |
| Shape | : | Cylindrical with outer rings for stiffening |
| Construction | : | All welded steel construction - Steel - SA 36/ST 52-3/Equivalent steel |
| Electricals | : | 7 pin - 24V – Side lights, Reflectors, Reverse lights |
| Pump | : | High pressure pump for jetting – Driven by gear box of the truck through splitter box
: PTO driven vacuum pump
: Hydraulic system with oil cooler & fan |
| Hose Reel | : | One hydraulically operated hose reel at rear door of the tank for high pressure cleaning
: Additional self align main jetting reel
: Hose reel end provided with set of nozzles to take care of various debris |
| Door | : | Hydraulically operated – From Dished plate – With leak resistant sealing gasket
: Absolutely tight and pressure/ vacuum proofed – Provision of greasing for clamp lubrication |

Safety Equipment

- Pressure & Vacuum relief valve – To control pressure and vacuum inside tank
- High – Low level auto cut off – To prevent dry running of jetting pump
- Combination gauge – Showing pressure and vacuum inside tank

Specification

- | | | |
|------------------------|---|--|
| Capacity | : | 20 – 60 CBM |
| Certification | : | U-stamp. Non U-stamp |
| Construction | : | Steel - SA 36, 516 Gr.70, ST 52-3, Equivalent steel
: Axle – Tandem / Trident axle – Mechanical suspension
: Tires – Suitable for load / terrain condition
: Brake – Two line air brake system, Spring assisted brakes
: King pin – 2" – JOST – Interchangeable with 3.5"
: Landing Leg – JOST - 2 Speed
: Electricals – 7 pin - 24V – Side lights, Reflectors, Reverse lights |
| Pipe lines | : | Fill / Vent / Discharge line – Terminated with Valves & Hammering unions/Customized
: Aeration system with Air jets / Aeration pad |
| Man ways | : | One number on each silo – At top for easy accessibility |
| Compressor | : | Air compressor – Piston type – With Deutz diesel engine |
| Aeration System | : | Jet or pad system |

- | | | |
|---------------------------|---|--|
| Testing/Inspection | : | Tank weld joints – MPI / Radiography – As per client requirements
: Lifting lugs - Load test – MPI testing - Certified for empty lift - Witnessed by qualified third party
: Hydro test – As per working pressure – Witnessed by qualified third party |
|---------------------------|---|--|

External Finish:

Grit blasting followed by three coat paint system

Tripod



Acid/Chemical Tanker



Valves	: All valve full Teflon coated to suit content
Man ways	: Quantity as per number of compartment for easy accessibility
	: Man way surrounded by FRP spill over tray
Safety devices	: Pressure & Vacuum relief valves
	: Optional tanker over turn protection
Level Indicator	: PVC – Dip stick type
	: Sight glass – Magnetic level indicator
Optional	: Supply and fitment of pump suitable for content
	: Air line for pressure discharge
	: Rockwool insulation outside tank – To maintain temperature of content – Increase lining life
Internal Coating	: Derakane 411-45 or 470-300 or Rubber lining
External Finish	: Grit blasting followed by three coat paint system

Specification

Capacity	: 6000 – 12000 IG
Shape	: Cylindrical or Customized
Compartment	: Single or Multiple compartment
Application	: For transportation of HCL 32%, Caustic Soda, Sodium Hypochlorite etc.
Construction	: Steel - SA 36/ST 52-3/SS 316/SS 316L
	: Axle – Tandem/Trident – Mechanical/Air suspension – Under slung/Over slung
	: Tires – Subject to Load/Terrain
	: Brake – Two line air brake system, Optional ABS/EBS/Emergency/ Spring assisted brakes
Pipe lines	: Top loading through man way
	: Discharge line - Customized as per client requirements - With Valves & Unions
	: Spill over line – Connected to scrubber tank

Accessories

- Acid resistant hoses with FRP tray – 2 Sets
- Scrubber tank to collect spill over with drain – Internally lined
- Spare wheel carrier to accommodate two spare tires
- Side & Rear anti run bumper
- Mudguards & Mud flaps
- Tool box & GRP Water tank

Specification

Capacity	: 2X50 BBL – 2X60 BBL – 2X75 BBL – 2X100 BBL
Type	: Skid or Trailer mounted
Application	: Uniform cement slurry blending, Mixing of slurries and other chemicals
	: Suitable for Slurry, HCL (Up to 32% concentration) & other chemicals.
Engine	: Engine package is mounted on vibration isolators
	: Diesel operated – 300-350 HP - Controlled electronically – Caterpillar / Detroit / Other options
Gear box	: Funk / Other options
Hydraulic Pump	: Two numbers – Driven by hydraulic motors – Parker Denison / Other options
Centrifugal Pump	: Two numbers – 6 X 5 X 11 – Hydraulically driven
Agitator	: One number per tank – Driven by hydraulic motor – Poclairn / Other options
Valves	: PTFE coated valve for acid application / Optional actuator operated
Man ways	: One number on each tank – Hinged type
Level Indicator	: Engraved level indicator on each tank

Batch Mixer



Construction	: Two number of tanks – Skid or Trailer mounted
	: Steel - SA 36, 516 Gr.70, ST 52-3, Equivalent steel
Skid	: Heavy duty – Top lifting hooks - Optional DNV certified – 2.71
Trailer	: Axle – 2X12/15 Ton – Mechanical suspension – Under slung
	: Tires – 315/80 R 22.5 – Selection depend on load/terrain condition
	: Brake – Two line air brake system, Spring assisted brakes
Internal Coating	: Epoxy primer, Coal tar epoxy for Slurry application
	: Derakane (411-45 or 470-300) or Rubber lining for HCL and other highly corrosive chemicals
External Finish	: Grit blasting followed by three coat paint system

Cement Bulker Banana Tankers



- Man ways** : Minimum 2 numbers –
At top for easy accessibility
- Compressor** : Air compressor – Piston type –
With Deutz diesel engine
- Aeration System** : Canvas hose with aluminum strip –
Europe
- Testing/Inspection** : Tank weld joints – MPI /
Radiography –
As per client requirements
: Hydro test – As per working pressure –
Witnessed by qualified third party

Accessories

- Discharge hoses – Steel wired
- Spare wheel carrier
- Rear anti run bumper
- Mudguards & Mud flaps
- Tool box & GRP Water tank

External Finish : Grit blasting followed by three coat paint system

Specification

- Capacity** : 20 – 60 CBM
- Certification** : U-stamp. Non U-stamp
- Shape** : "V" type with self-supporting
tank construction
- Compartment** : Provisional Single or
Multiple compartment
- Application** : Suitable for Slurry, Water,
HCL (Up to 32% concentration),
Crude oil and other chemicals

Pipe lines

- Fill line – With Valves Unions – One or Two –
As per client requirements
- Discharge through sump – On both sides –
With valves & unions
- Vent line – With Valves unions

Construction

- Steel - SA 36, 516 Gr.70, ST 52-3, Equivalent steel
- Axle – Tandem / Trident axle – Mechanical suspension
- Tires – Suitable for load / terrain condition
- Brake – Two line air brake system,
Spring assisted brakes
- King pin – 2" – JOST – Interchangeable with 3.5"
- Landing Leg – JOST - 2 Speed
- Electricals – 7 pin - 24V – Side lights, Reflectors, Reverse
lights

Cement Silos Gravity & Pressure

Specification

- Capacity** : Single Silo - 750 – 3500 CFT
: Twin silo – 2 X 1000 CFT
- Type** : U-stamp, Non U-stamp
: Gravity discharge, Under pressure
discharge
- Application** : Storage of Cement, Barite, Bentonite, etc
- Construction** : Steel - SA 36, 516 Gr.70, ST 52-3,
Equivalent steel
- Pipe lines** : Fill / Vent / Discharge line –
Terminated with Valves &
Hammering unions/Customized
: Aeration system with Air jets /
Aeration pad
- Man ways** : At bottom – For easy accessibility –
Optional man way at top

Testing/Inspection

- Tank weld joints – MPI / Radiography – As per client
requirements
- Lifting lugs - Load test – MPI testing - Certified for empty lift -
Witnessed by qualified third party
- Hydro test – As per working pressure – Witnessed by qualified
third party

Accessories

- Pressure relief valve
- Pressure gauge
- Ladder with bolted cage
- Provision for mounting compression load cell

External Finish : Grit blasting followed by three coat paint
system



Centrifugal Pump Skid



Specification

Type	: Heavy duty skid mounted – Four numbers of lifting lugs – Optional DNV 2.7.1 certified
Application	: To pump variety of fluids including acid solution
Engine	: Caterpillar / Cummins / Deutz – 68-84 BHP
Gear box	: Funk / Other options
Centrifugal Pump	: Serva / Gardner Denver / Cummins – 6 X 5 X 11
Clutch	: PTO driven – Manual
Suction/Discharge	: 4" Suction & Discharge connections terminated with FIG 207/206 connections
Option	: Optional PTFE coated valves and Derakane lining for acid application
External Finish	: Grit blasting followed by three coat paint system

Specification

Capacity	: 300 – 500 BBL
Type	: Cylindrical / Rectangular / Customized
Application	: Storage of Water, Fluid, HCL (32%) etc
Construction	: Steel - SA 36, 516 Gr.70, ST 52-3, Equivalent steel
Pipe lines	: Fill line – With Valves & Hammering unions – One or Two – As per client requirements : Discharge Manifold (6"/8"/10") – 2-4 number of outlets – With Valves & Hammering unions : Vent line – One number per compartment - With Valves & Hammering unions : Drain line - One number per compartment - With Valves & Hammering unions
Man ways	: At top for easy accessibility
Walkway	: Walkway with foldable hand rail
Level Indicator	: PVC dipstick with maple wood : Sight glass – Magnetic level indicator
Internal Coating	: Epoxy primer, Coal tar epoxy for Water & Slurry application : Derakane or Rubber lining for HCL and other highly corrosive chemicals
External Finish	: Grit blasting followed by three coat paint system

Storage Tanks



Cutting Bottles



- Testing/Inspection** :
- Tank weld joints – MPI / Radiography – As per client requirements
 - Lifting lugs - Load test – MPI testing - Certified for empty lift - Witnessed by qualified third party
 - Hydro test – As per working pressure – Witnessed by qualified third party

Specification

- Capacity** : 50 -240 CFT
Type : U-stamp, Non U-stamp
Application : Cement, Barite, Bentonite, etc
Construction : Steel - SA 36, 516 Gr.70, ST 52-3, Equivalent steel
Pipe lines : Fill / Vent / Discharge line – Terminated with Valves & Hammering unions/ Customized
Man ways : At bottom – For easy accessibility

Accessories

- Hopper at top with cutting blades
- Pressure relief valve
- Pressure gauge
- Provision for mounting compression load cell

External Finish

: Grit blasting followed by three coat paint system

Specification

- Capacity** : 50 - 75 CFT
Construction : Steel - SA 36, 516 Gr.70, ST 52-3, Equivalent steel
Pipe lines : Fill / Vent / Discharge line – Terminated with Valves & Hammering unions/Customized
Man ways : At bottom – For easy accessibility

Testing/Inspection

- Tank weld joints – MPI / Radiography – As per client requirements
- Lifting lugs - Load test – MPI testing - Certified for empty lift - Witnessed by qualified third party
- Pneumatic test – As per working pressure

Accessories

Provision for mounting compression load cell

External Finish : Grit blasting followed by three coat paint system

Dust Collectors



Frac Tank



- Man ways** : Minimum 2 numbers – One at bottom and one at top for easy accessibility
- Level Indicator** : PVC dipstick with maple wood
: Sight glass – Magnetic level indicator
- Internal Coating** : Epoxy primer, Coal tar epoxy for Water & Slurry application
: Derakane or Rubber lining for HCL & other highly corrosive chemicals
- External Finish** : Grit blasting followed by three coat paint system

Specification

- Capacity** : 300 BBL - 500 BBL
- Shape** : Rectangular with -
A. Bottom round & top flat,
B. Bottom & Top round,
C. Bottom "V" & top flat
- Compartment** : Single or Multiple compartment
- Application** : Suitable for Slurry, Water, HCL (Up to 32% concentration), Crude oil and other chemicals.
- Construction** : Steel - SA 36, 516 Gr.70, ST 52-3, Equivalent steel
: Axle – 12/15 Ton – Mechanical suspension – Under slung
: Tires – 11 R 22.5
: Brake – Two line air brake system, Spring assisted brakes
- Pipe lines** : Fill line – With Valves & Hammering unions – One or Two – As per client requirements
: Discharge Manifold (6"/8"/10") – 2-4 number of outlets – With Valves & Hammering unions
: Vent line – One number per compartment - With Valves & Hammering unions
: Drain line - One number per compartment - With Valves & Hammering unions

Weigh Batch Blender

Specification

- Capacity** : 300 - 500 CFT
- Type** : U-stamp, Non U-stamp
- Application** : Cement, Barite, Bentonite, etc
- Construction** : Steel - SA 36, 516 Gr.70, ST 52-3, Equivalent steel
- Pipe lines** : Fill /Vent / Discharge line – Terminated with Valves & Hammering unions/Customized
- Man ways** : At bottom – For easy accessibility
- Testing/Inspection** : Tank weld joints – MPI / Radiography – As per client requirements
: Lifting lugs - Load test – MPI testing - Certified for empty lift - Witnessed by qualified third party
: Hydro test – As per working pressure – Witnessed by qualified third party
- Accessories** : Hopper at top with cutting blades
: Pressure relief valve
: Pressure gauge
: Provision for mounting compression load cell
- External Finish** : Grit blasting followed by three coat paint system



Oil Terminal Tanks



Storage tanks are commonly employed in oil and gas industry for the storage of fluids at different stages of the process and a variety of other industries consuming or producing liquids and vapors.

Storage tanks are primarily used in the oil and gas industry for the storage of fluids at different stages of the process. Most often, products are stored for a short time before being transported for further processing. Most such tanks are designed and built in accordance with American Petroleum Institute API-650 specifications. These tanks can range in size from 2m to 60m diameter. We are specialized in fabrication and erection of Fixed-Roof tanks External floating-roof tanks Internal floating-roof tanks Domed external floating-roof tanks

QHSE

Acorn Equipped with:

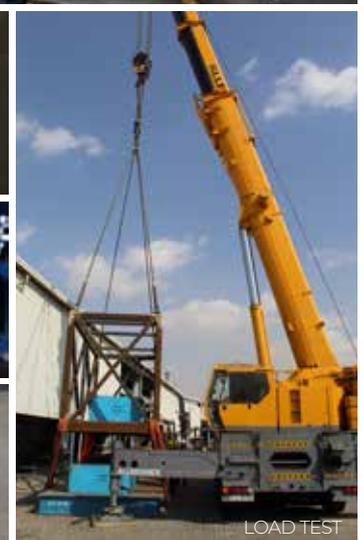
- ASNT Level II certified inspectors
- Certified welding procedures
- NEBOSH certified Engineers
- IOSH certified Engineers
- Certified First aiders
- Certified Fire fighters
- Certified ISO 9001:2015 Internal Auditors

Our principles, vision and commitment to quality, health, safety and environment is set down in our QHSE policy. This policy guides our day-to-day operations and actions and serves as an important benchmark for evaluating and ever-improving our performance

The Integrated Management System (IMS) is our core tool for managing and continuously improving our performance. It helps us achieve our QHSE objectives and targets.

Our excellence in QHSE is proven time and again in the work we do and certified according to different international standards and a range of other requirements.

- ASME "U" STAMP Certified company
- ASME "R" STAMP Certified company
- ISO 9001:2015 Certified Company
- ISO 14001:2015 Certified Company
- OHSAS 18001:2007 Certified Company



Acorn Infrastructure





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